10/772,170

STN - STRUCTURE SEARCH
10-20-04

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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:276738 CAPLUS
DOCUMENT NUMBER: 138:287671
TITLE: Preparation of aminoimidazopyridinylalkyl(thio)ureas as cytokine biosynthesis inducers.
INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner, Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S., 40 pp., Cont.-in-part of U.S. Ser. No. 16,073.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6545017	B1	20030408	US 2002-165453	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
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OTHER SOURCE(S): MARPAT 138:287671

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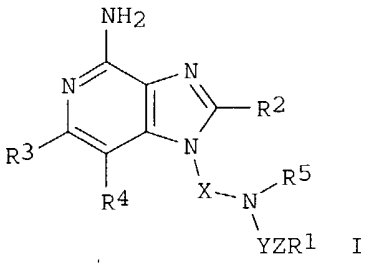

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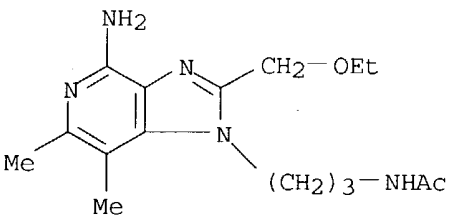
AB Title compds. [I; X = alkylene, alkenylene; Y = CO, CS; Z = NR6, NR6CO, NR6SO2, NR7; R1 = (substituted) aryl, heteroaryl, heterocyclyl, alkyl, alkenyl; R2 = H, (substituted) alkyl, alkenyl, aryl, heteroaryl, etc.; R3, R4 = H, alkyl, alkenyl, halo, alkoxy, amino, alkylthio; R5, R6 = H, alkyl; XR5, R1R7 = atoms to form a ring; R7 = H, (heteroatom-interrupted) alkyl], were prepared Thus, PhNCO was added to 1-(4-aminobutyl)-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-4-amine in CH2Cl2 under ice cooling followed by stirring for 30 min. to give N-[4-[4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]butyl]-N'-phenylurea. The latter induced interferon and tumor necrosis factor synthesis in human peripheral blood mononuclear cells with least effective concns. of 0.12 and 0.37 μM, resp.

IT **499127-22-9P 499127-33-2P 507225-52-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aminoimidazopyridinylalkyl(thio)ureas as cytokine biosynthesis inducers)

RN 499127-22-9 CAPLUS

CN Acetamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



RN 499127-33-2 CAPLUS
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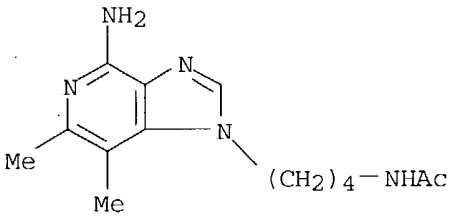

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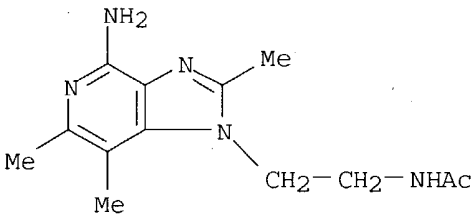

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:276737 CAPLUS
DOCUMENT NUMBER: 138:304283
TITLE: Preparation of aminoimidazopyridinylalkylamides as inducers of cytokine biosynthesis.
INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner, Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 16,073, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6545016	B1	20030408	US 2002-165229	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607

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US	6720333	B2	20040413		
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OTHER SOURCE(S): MARPAT 138:304283

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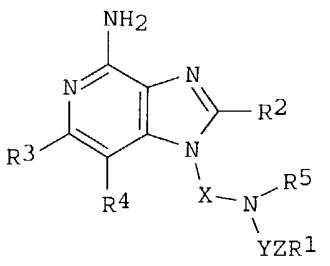

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AB Title compds. [I; X = alkylene, alkenylene; Y = CO, CS; Z = bond, O, S; R1 = (substituted) aryl, heteroaryl, heterocyclyl; R2 = H, alkoxyalkyl, aryloxyalkyl, (substituted) aryl, heteroaryl, alkyl, alkenyl, etc.; R3, R4 = H, alkyl, alkenyl, halo, alkoxy, amino, alkylthio; R5 = H, alkyl; R5X, R1R5 = atoms to form a ring], were prepared Thus, Et3N and 1-(4-aminobutyl)-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-4-amine (preparation given) in CH2Cl2 were treated with methanesulfonic anhydride under ice cooling followed by stirring for 35 min. to give N-[4-(4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]methanesulfonamide. The latter induced interferon and tumor necrosis factor production in human peripheral blood mononuclear cells at lowest effective concns. of 0.0046 and 0.01 μM, resp.

IT **499127-18-3P 499127-22-9P 499127-33-2P**
499127-82-1P 507225-50-5P 507225-51-6P
507225-52-7P 507225-53-8P 507225-54-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of aminoimidazopyridinylalkylamides as inducers
of cytokine biosynthesis)

RN 499127-18-3 CAPLUS
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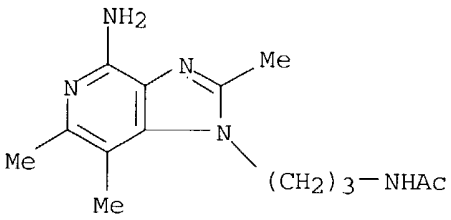

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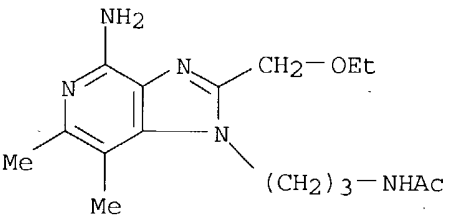

RN 499127-33-2 CAPLUS
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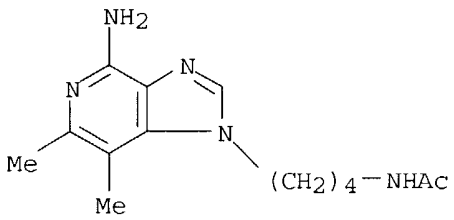

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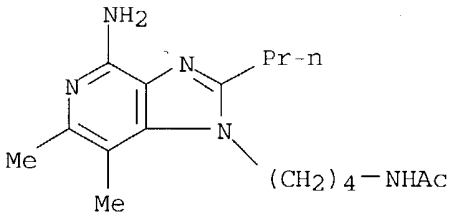

RN 507225-50-5 CAPLUS
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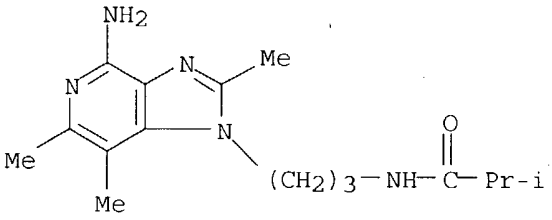

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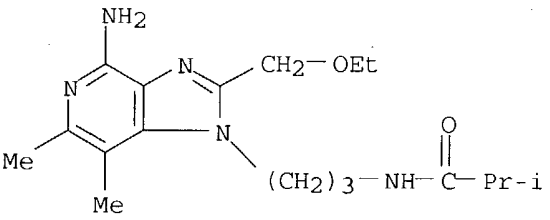

RN 507225-52-7 CAPLUS
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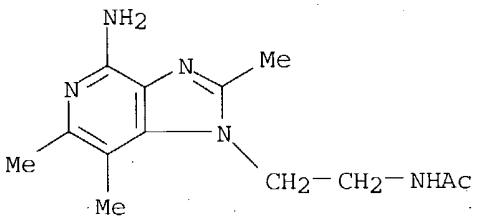

RN 507225-53-8 CAPLUS
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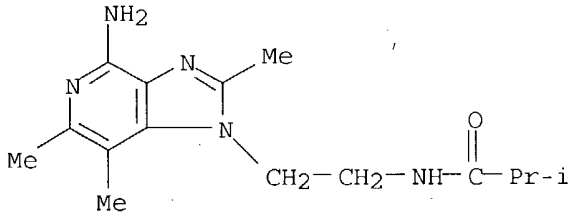

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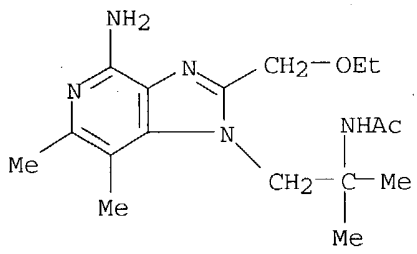
CN Acetamide, N-[2-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]-1,1-dimethylethyl]- (9CI) (CA INDEX NAME)



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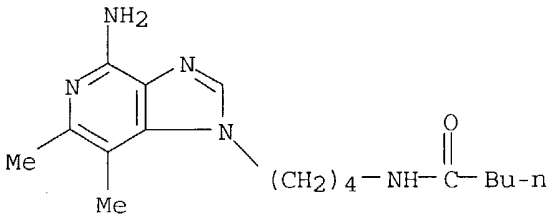
507227-01-2P 507228-75-3P 507228-78-6P
507228-82-2P 507228-87-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoimidazopyridinylalkylamides as inducers of cytokine biosynthesis)

RN 507225-69-6 CAPLUS
CN Pentanamide, N-[4-(4-amino-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]- (9CI) (CA INDEX NAME)



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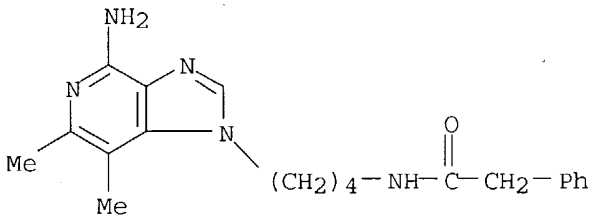

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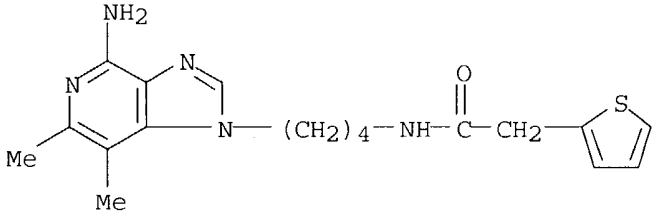
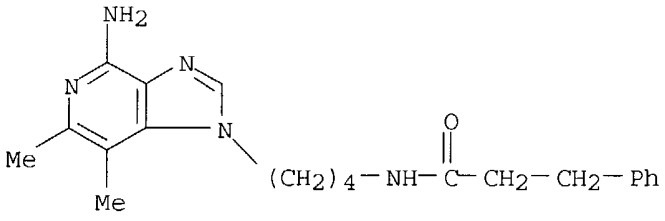
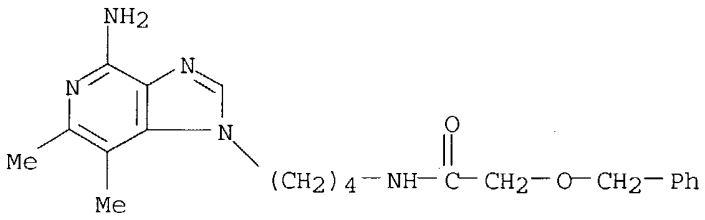
CN 2-Thiopheneacetamide, N-[4-(4-amino-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]- (9CI) (CA INDEX NAME)



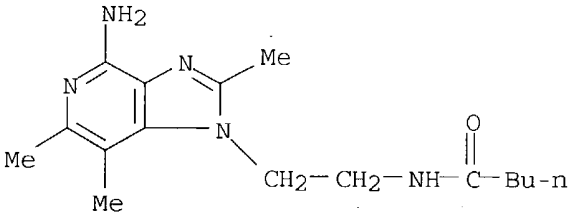
RN 507225-76-5 CAPLUS
CN Benzenepropanamide, N-[4-(4-amino-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]- (9CI) (CA INDEX NAME)



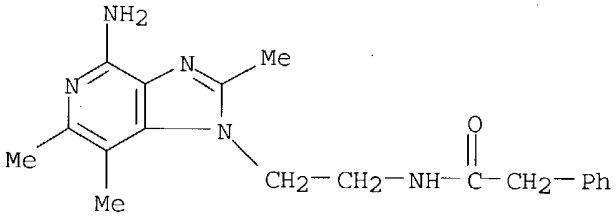
RN 507225-78-7 CAPLUS
CN Acetamide, N-[4-(4-amino-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)



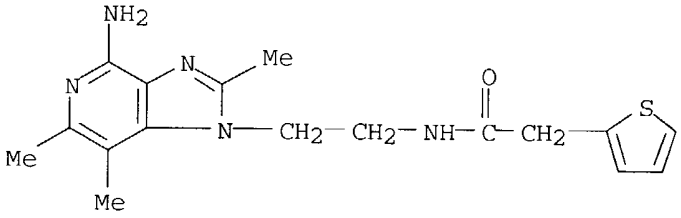
RN 507226-18-8 CAPLUS
CN Pentanamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]- (9CI) (CA INDEX NAME)



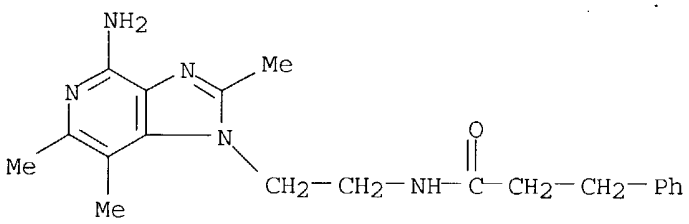
RN 507226-20-2 CAPLUS
CN Benzeneacetamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]- (9CI) (CA INDEX NAME)



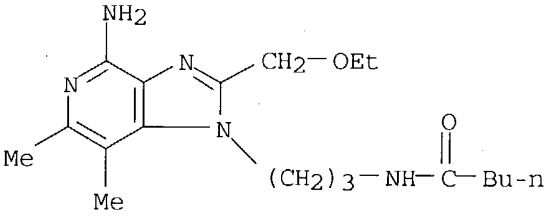
RN 507226-22-4 CAPLUS
CN 2-Thiopheneacetamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]- (9CI) (CA INDEX NAME)



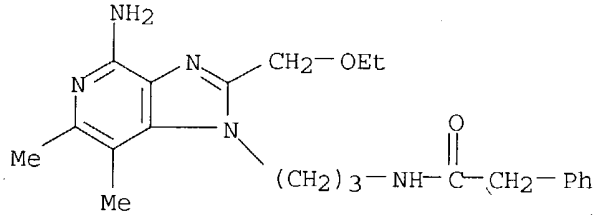
RN 507226-25-7 CAPLUS
CN Benzenepropanamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]- (9CI) (CA INDEX NAME)



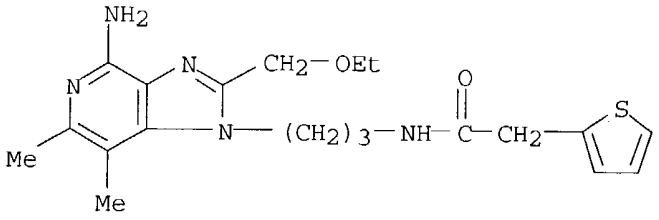
RN 507226-45-1 CAPLUS
CN Pentanamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



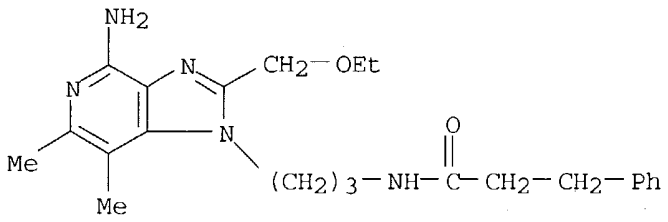
RN 507226-51-9 CAPLUS
CN Benzeneacetamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



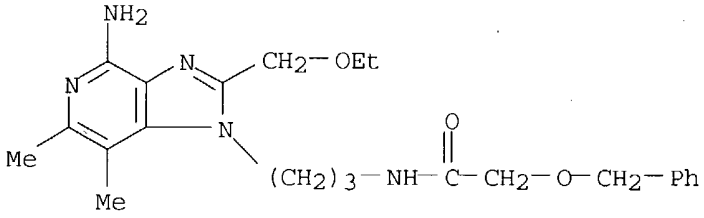
RN 507226-55-3 CAPLUS
CN 2-Thiopheneacetamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



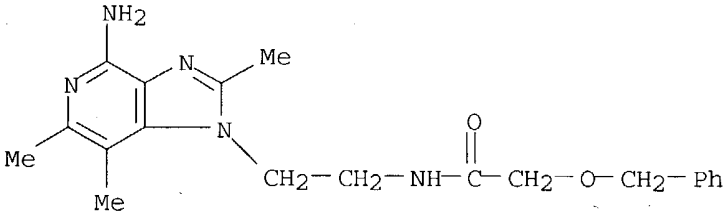
RN 507226-61-1 CAPLUS
CN Benzenepropanamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



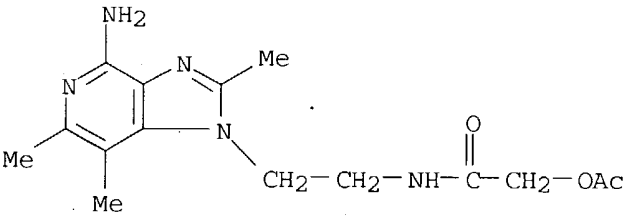
RN 507226-69-9 CAPLUS
CN Acetamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)



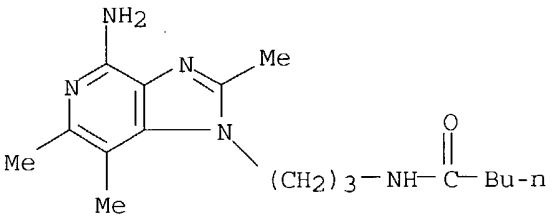
RN 507226-95-1 CAPLUS
CN Acetamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)



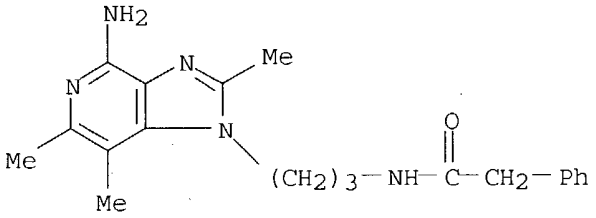
RN 507227-01-2 CAPLUS
CN Acetamide, 2-(acetyloxy)-N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]- (9CI) (CA INDEX NAME)



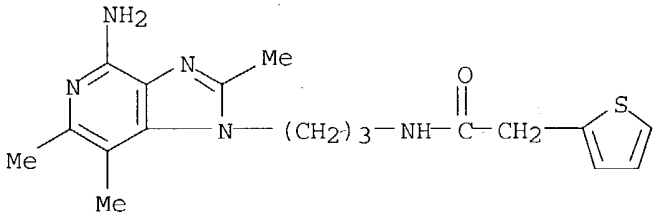
RN 507228-75-3 CAPLUS
CN Pentanamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



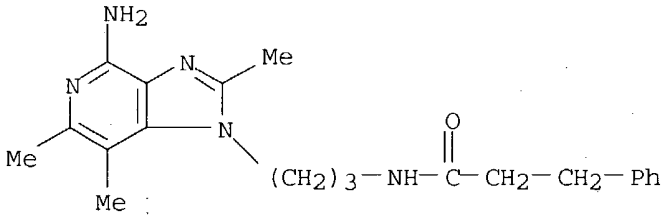
RN 507228-78-6 CAPLUS
CN Benzeneacetamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



RN 507228-82-2 CAPLUS
CN 2-Thiopheneacetamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



RN 507228-87-7 CAPLUS
CN Benzenepropanamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:150533 CAPLUS
DOCUMENT NUMBER: 138:187770

10/772,170

TITLE: Preparation of sulfonamido/benzamido-alkyl substituted imidazopyridines as immune response modifiers

INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner, Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 16,073, abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6525064	B1	20030225	US 2002-165002	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
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US 6696465	B2	20040224			
US 2004147533	A1	20040729	US 2004-754056		20040107
PRIORITY APPLN. INFO.:			US 2000-254228P	P	20001208
			US 2001-16073	B2	20011206
			US 2002-165002	A1	20020607
			WO 2002-US18220	W	20020607
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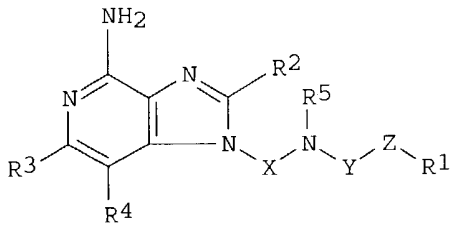
OTHER SOURCE(S): MARPAT 138:187770

GI



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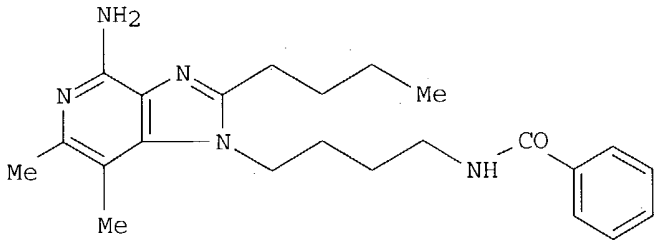


II

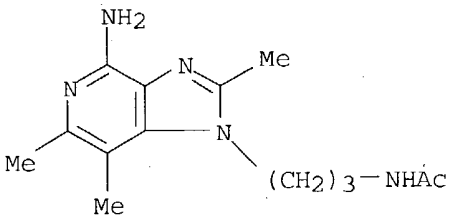
AB Title compds. I [X = alk(en)ylene; Y = SO2; Z = bond, amino; R1 = aryl, heteroaryl, alkyl, heterocyclyl, etc.; R2 = H, alkyl, alkenyl, aryl, etc.; R3-4 = H, alkyl, alkenyl, halo, alkoxy, etc.; R5 = H, alkyl, etc.] are prepared For instance, 4-hydroxy-5,6-dimethyl-3-nitro-2(1H)-pyridone was reacted with triflic anhdydride and mono-boc-1,4-butanediamine to give 4-[[4-[(tert-butoxycarbonyl)amino]butyl]amino]-5,6-dimethyl-3-nitropyridin-2-yl trifluoromethanesulfonate. This intermediate was reacted with dibenzylamine (PhMe, Et3N), reduced to the amino derivative (MeOH, NaBH4, NiCl2), acylated/cyclized (CH3CN, valeryl chloride, Et3N), deprotected (CH2Cl2, triflic acid) and acylated (CH2Cl2, PhCOCl) to give II. II caused interferon induction at 0.12 μM and TNF induction at 1.11 μM. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

IT **499127-18-3P**, N-[3-(4-Amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]acetamide **499127-22-9P**, N-[3-[4-Amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]acetamide **499127-33-2P**, N-[4-(4-Amino-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]acetamide **499127-82-1P**, N-[4-(4-Amino-6,7-dimethyl-2-propyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]acetamide **499128-17-5P**, N-[2-(4-Amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]acetamide hydrochloride
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of sulfonamido/benzamido-alkyl substituted imidazopyridines as immune response modifiers)

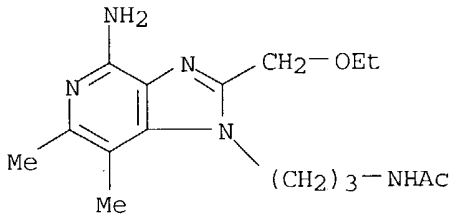
RN 499127-18-3 CAPLUS

CN Acetamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



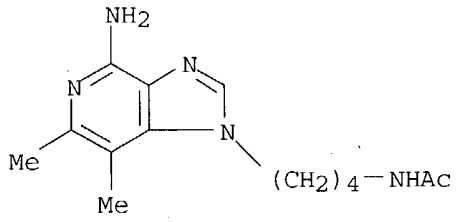
RN 499127-22-9 CAPLUS

CN Acetamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



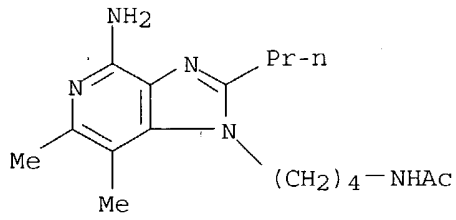
RN 499127-33-2 CAPLUS

CN Acetamide, N-[4-(4-amino-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]- (9CI) (CA INDEX NAME)

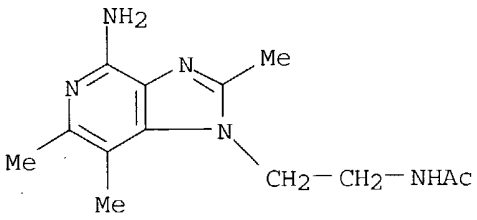


RN 499127-82-1 CAPLUS

CN Acetamide, N-[4-(4-amino-6,7-dimethyl-2-propyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]- (9CI) (CA INDEX NAME)



RN 499128-17-5 CAPLUS
CN Acetamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L1 STRUCTURE UPLOADED
L2 1 S L1
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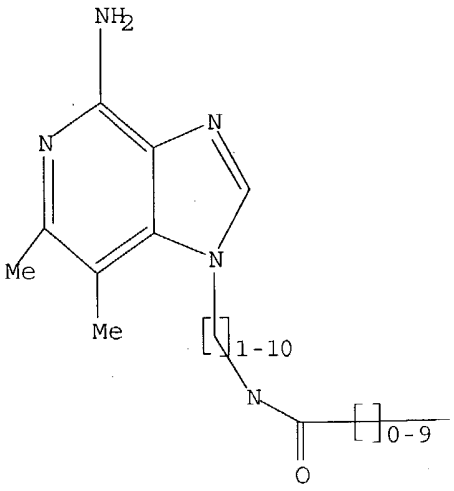
FILE 'CAPLUS' ENTERED AT 09:25:40 ON 20 OCT 2004
L4 3 S L3

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,S

G2 H,Me

G3 H,Ak

G4 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=>

PALM INTRANET

Day : Wednesday
Date: 10/20/2004
Time: 09:13:36

Inventor Name Search Result

Your Search was:

Last Name = HEPPNER
First Name = PHILIP

Application#	Patent#	Status	Date Filed	Title	Inventor Name 42
60603303	Not Issued	020	08/20/2004	PYRAZOLOPYRIDINES AND ANALOGS THEREOF	HEPPNER, PHILIP D.
60581317	Not Issued	020	06/18/2004	ARYL SUBSTITUTED IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
60581316	Not Issued	020	06/18/2004	SUBSTITUTED THIAZOLOPYRIDINES, THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
60581297	Not Issued	020	06/18/2004	ARYLOXY AND ARYLALKYLENEOXY SUBSTITUTED THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
60581205	Not Issued	020	06/18/2004	ARYL AND ARYLALKYENYL SUBSTITUTED THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
60579352	Not Issued	020	06/14/2004	UREA SUBSTITUTED IMIDAZOPYRIDINES, IMIDAZOQUINOLINES, AND IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
60554680	Not Issued	020	03/19/2004	PYRAZOLOPYRIDINES AND ANALOGS THEREOF	HEPPNER, PHILIP D.
60516331	Not Issued	020	10/31/2003	ARYL SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
60508634	Not Issued	159	10/03/2003	ALKOXY SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
60254218	Not Issued	159	12/08/2000	ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10824232	Not Issued	030	04/14/2004	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
10772170	Not	030	02/04/2004	AMIDE SUBSTITUTED	HEPPNER,

	Issued			IMIDAZOPYRIDINES	PHILIP D.
10771639	Not Issued	041	02/04/2004	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10754056	Not Issued	041	01/07/2004	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10696753	Not Issued	061	10/29/2003	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10696478	Not Issued	071	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10696476	Not Issued	030	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10696108	Not Issued	061	10/29/2003	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10681814	Not Issued	071	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10681711	Not Issued	071	10/07/2003	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10681457	Not Issued	030	10/07/2003	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10680989	Not Issued	071	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10675833	Not Issued	071	09/30/2003	HETEROCYCLIC ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10456308	6797718	150	06/06/2003	ETHER SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10406181	6797716	150	04/03/2003	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
10358017	6720334	150	02/04/2003	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10357995	6720333	150	02/04/2003	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10322262	6696465	150	12/17/2002	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10165750	6677348	150	06/07/2002	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10165453	6545017	150	06/07/2002	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10165449	6664265	150	06/07/2002	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10165443	6677347	150	06/07/2002	SULFONAMIDO ETHER SUBSTITUTED	HEPPNER, PHILIP D.

				IMIDAZOQUINOLINES	
10165229	6545016	150	06/07/2002	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10165002	6525064	150	06/07/2002	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10164816	6660735	150	06/07/2002	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10013202	6670372	150	12/06/2001	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10013060	6656938	150	12/06/2001	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10012599	6683088	150	12/06/2001	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10011921	6664260	150	12/06/2001	HETEROCYCLIC ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10011670	6660747	150	12/06/2001	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
09706990	6514985	150	11/06/2000	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
09210114	6194425	150	12/11/1998	IMIDAZONAPHTHYRIDINES	HEPPNER , PHILIP D.

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